

23351

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| <b>FEE TRANSMITTAL</b><br>for FY 2004<br><small>Effective 10/01/2003. Patent fees are subject to annual revision.</small> |  | <b>Complete if Known</b> |                   |
|---|--|--------------------------|-------------------|
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | 09/607,211        |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$ 486.00)  |  | Filing Date              | June 30, 2000     |
|   |  | First Named Inventor     | Billy T. Upchurch |
|   |  | Examiner Name            | Nguyen, Cam N.    |
|   |  | Art Unit                 | 1754              |
|   |  | Attorney Docket No.      | LAR 15851-1-CU    |

  

| METHOD OF PAYMENT (check all that apply)  |                            | FEE CALCULATION (continued)  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
|---|----------------------------|--|----------|--|---------------------------------|-----------------|----------|-----------------|----------|------|-----|--------------------|----|-------------------------------------|-----|------|-----|-------------------|----|--|-----|------|-----|------------------|-----|---------------------------|-----|------|-------|--------------------|-------|---|-----|------|-----|------------------------|------|--|--|------|--------|------|--------|---|--|--------------|--------------|----------------|----------|--|---------|------|-----|--------------------|--------|---|--|----------------------------|----------------------------|-----------------|----------|--|----|-------------------------------|-------|------|-----|---|--|------|-------|--|-------|--|----|--|-----|------|-----|---|--|---------------------------|-----|------|-----|--------------------------------------|--|------|-----|------|-----|--------------------------|--|------|-------|------|-------|---|--|------|-----|------|----|----------------------------------|--|------|-------|------|-----|------------------------------------|--|------|-------|------|-----|--------------------------------|--|------|-----|------|-----|------------------|--|------|-----|------|-----|-----------------|--|------|-----|------|-----|-------------------------------|--|------|----|------|----|-------------------------------------|--|------|-----|------|-----|---|--|------|----|------|----|--|--|------|-----|------|-----|---|--|------|-----|------|-----|--|--|------|-----|------|-----|---|--|------|-----|------|-----|---|--|--|--|--|--|--|--------|-----------------------------------|--|--|--|--|---------------------------------|
| <input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None<br><input checked="" type="checkbox"/> Deposit Account:<br><div style="border: 1px solid black; padding: 2px; margin: 5px 0;">14-0116</div> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;">National Aeronautics and Space Administration</div>  |                            | <b>3. ADDITIONAL FEES</b><br>Large Entity   Small Entity   |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| The Director is authorized to: (check all that apply)<br><input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments<br><input checked="" type="checkbox"/> Charge any additional fee(s) or any underpayment of fee(s)<br><input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.  |                            | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1051</td><td>150</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for ex parte reexamination</td><td></td></tr> <tr><td>1804</td><td>920</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>420</td><td>2252</td><td>210</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>950</td><td>2253</td><td>475</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,480</td><td>2254</td><td>740</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>2,010</td><td>2255</td><td>1,005</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>330</td><td>2401</td><td>165</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>330</td><td>2402</td><td>165</td><td>Filing brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>290</td><td>2403</td><td>145</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,330</td><td>2453</td><td>665</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,330</td><td>2501</td><td>665</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>480</td><td>2502</td><td>240</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>840</td><td>2503</td><td>320</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>770</td><td>2809</td><td>385</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>770</td><td>2810</td><td>385</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>770</td><td>2801</td><td>385</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="5" style="padding: 5px;">Other fee (specify) <b>Extra Claims (27 add'l @ \$18 ea)</b></td><td style="text-align: right; padding: 5px;">486.00</td></tr> <tr> <td colspan="5" style="padding: 5px;">*Reduced by Basic Filing Fee Paid</td> <td style="text-align: right; padding: 5px;"><b>SUBTOTAL (3) (\$ 486.00)</b></td> </tr> </tbody> </table> |          | Fee Code   | Fee (\$)                        | Fee Code        | Fee (\$) | Fee Description | Fee Paid | 1051 | 150 | 2051               | 65 | Surcharge - late filing fee or oath |     | 1052 | 50  | 2052              | 25 | Surcharge - late provisional filing fee or cover sheet |     | 1053 | 130 | 1053             | 130 | Non-English specification |     | 1812 | 2,520 | 1812               | 2,520 | For filing a request for ex parte reexamination |     | 1804 | 920 | 1804                   | 920* | Requesting publication of SIR prior to Examiner action |  | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action   |  | 1251         | 110          | 2251           | 55       | Extension for reply within first month |         | 1252 | 420 | 2252               | 210    | Extension for reply within second month |  | 1253                       | 950                        | 2253            | 475      | Extension for reply within third month |    | 1254                          | 1,480 | 2254 | 740 | Extension for reply within fourth month   |  | 1255 | 2,010 | 2255   | 1,005 | Extension for reply within fifth month |    | 1401   | 330 | 2401 | 165 | Notice of Appeal  |  | 1402                      | 330 | 2402 | 165 | Filing brief in support of an appeal |  | 1403 | 290 | 2403 | 145 | Request for oral hearing |  | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding |  | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable |  | 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional |  | 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) |  | 1502 | 480 | 2502 | 240 | Design issue fee |  | 1503 | 840 | 2503 | 320 | Plant issue fee |  | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner |  | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17(q) |  | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt |  | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) |  | 1809 | 770 | 2809 | 385 | Filing a submission after final rejection (37 CFR 1.129(a)) |  | 1810 | 770 | 2810 | 385 | For each additional invention to be examined (37 CFR 1.129(b)) |  | 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) |  | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application |  | Other fee (specify) <b>Extra Claims (27 add'l @ \$18 ea)</b> |  |  |  |  | 486.00 | *Reduced by Basic Filing Fee Paid |  |  |  |  | <b>SUBTOTAL (3) (\$ 486.00)</b> |
| Fee Code  | Fee (\$)                   | Fee Code   | Fee (\$) | Fee Description  | Fee Paid                        |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1051  | 150                        | 2051   | 65       | Surcharge - late filing fee or oath  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1052  | 50                         | 2052   | 25       | Surcharge - late provisional filing fee or cover sheet                     |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1053  | 130                        | 1053   | 130      | Non-English specification  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1812  | 2,520                      | 1812   | 2,520    | For filing a request for ex parte reexamination                            |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1804  | 920                        | 1804   | 920*     | Requesting publication of SIR prior to Examiner action                     |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1805  | 1,840*                     | 1805   | 1,840*   | Requesting publication of SIR after Examiner action                        |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1251  | 110                        | 2251   | 55       | Extension for reply within first month                                     |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1252  | 420                        | 2252   | 210      | Extension for reply within second month                                    |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1253  | 950                        | 2253   | 475      | Extension for reply within third month                                     |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1254  | 1,480                      | 2254   | 740      | Extension for reply within fourth month                                    |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1255  | 2,010                      | 2255   | 1,005    | Extension for reply within fifth month                                     |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1401  | 330                        | 2401   | 165      | Notice of Appeal   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1402  | 330                        | 2402   | 165      | Filing brief in support of an appeal                                       |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1403  | 290                        | 2403   | 145      | Request for oral hearing   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1451  | 1,510                      | 1451   | 1,510    | Petition to institute a public use proceeding                              |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1452  | 110                        | 2452   | 55       | Petition to revive - unavoidable   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1453  | 1,330                      | 2453   | 665      | Petition to revive - unintentional   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1501  | 1,330                      | 2501   | 665      | Utility issue fee (or reissue)   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1502  | 480                        | 2502   | 240      | Design issue fee   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1503  | 840                        | 2503   | 320      | Plant issue fee  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1460  | 130                        | 1460   | 130      | Petitions to the Commissioner  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1807  | 50                         | 1807   | 50       | Processing fee under 37 CFR 1.17(q)  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1806  | 180                        | 1806   | 180      | Submission of Information Disclosure Stmt                                  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 8021  | 40                         | 8021   | 40       | Recording each patent assignment per property (times number of properties) |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1809  | 770                        | 2809   | 385      | Filing a submission after final rejection (37 CFR 1.129(a))                |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1810  | 770                        | 2810   | 385      | For each additional invention to be examined (37 CFR 1.129(b))             |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1801  | 770                        | 2801   | 385      | Request for Continued Examination (RCE)                                    |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1802  | 900                        | 1802   | 900      | Request for expedited examination of a design application                  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| Other fee (specify) <b>Extra Claims (27 add'l @ \$18 ea)</b>  |                            |  |          |  | 486.00                          |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| *Reduced by Basic Filing Fee Paid   |                            |  |          |  | <b>SUBTOTAL (3) (\$ 486.00)</b> |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| <b>1. BASIC FILING FEE</b><br>Large Entity   Small Entity<br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1001</td><td>770</td><td>2001</td><td>385</td><td>Utility filing fee</td><td></td></tr> <tr><td>1002</td><td>340</td><td>2002</td><td>170</td><td>Design filing fee</td><td></td></tr> <tr><td>1003</td><td>530</td><td>2003</td><td>265</td><td>Plant filing fee</td><td></td></tr> <tr><td>1004</td><td>770</td><td>2004</td><td>385</td><td>Reissue filing fee</td><td></td></tr> <tr><td>1005</td><td>160</td><td>2005</td><td>80</td><td>Provisional filing fee</td><td></td></tr> <tr><td colspan="5" style="padding: 5px;"><b>SUBTOTAL (1) (\$ )</b></td><td></td></tr> </tbody> </table> |                            | Fee Code   | Fee (\$) | Fee Code   | Fee (\$)                        | Fee Description | Fee Paid | 1001            | 770      | 2001 | 385 | Utility filing fee |    | 1002                                | 340 | 2002 | 170 | Design filing fee |    | 1003   | 530 | 2003 | 265 | Plant filing fee |     | 1004                      | 770 | 2004 | 385   | Reissue filing fee |       | 1005  | 160 | 2005 | 80  | Provisional filing fee |      | <b>SUBTOTAL (1) (\$ )</b>                              |  |      |        |      |        | <b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b><br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Independent</td> <td>-20** =</td> <td>X</td> <td></td> </tr> <tr> <td>Multiple Dependent</td> <td>-3** =</td> <td>X</td> <td></td> </tr> </tbody> </table><br><table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1202</td><td>18</td><td>2202 9 Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>88</td><td>2201 43 Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>290</td><td>2203 145 Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>88</td><td>2204 43 ** Reissue independent claims over original patent</td><td></td></tr> <tr><td>1205</td><td>18</td><td>2205 9 ** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="4" style="padding: 5px;"><b>SUBTOTAL (2) (\$ )</b></td></tr> </tbody> </table> |  | Total Claims | Extra Claims | Fee from below | Fee Paid | Independent                            | -20** = | X    |     | Multiple Dependent | -3** = | X                                       |  | Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid | 1202                                   | 18 | 2202 9 Claims in excess of 20 |       | 1201 | 88  | 2201 43 Independent claims in excess of 3 |  | 1203 | 290   | 2203 145 Multiple dependent claim, if not paid |       | 1204                                   | 88 | 2204 43 ** Reissue independent claims over original patent |     | 1205 | 18  | 2205 9 ** Reissue claims in excess of 20 and over original patent |  | <b>SUBTOTAL (2) (\$ )</b> |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| Fee Code  | Fee (\$)                   | Fee Code   | Fee (\$) | Fee Description  | Fee Paid                        |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1001  | 770                        | 2001   | 385      | Utility filing fee   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1002  | 340                        | 2002   | 170      | Design filing fee  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1003  | 530                        | 2003   | 265      | Plant filing fee   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1004  | 770                        | 2004   | 385      | Reissue filing fee   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1005  | 160                        | 2005   | 80       | Provisional filing fee   |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| <b>SUBTOTAL (1) (\$ )</b>   |                            |  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| Total Claims  | Extra Claims               | Fee from below   | Fee Paid |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| Independent   | -20** =                    | X  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| Multiple Dependent  | -3** =                     | X  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| Large Entity Fee Code (\$)  | Small Entity Fee Code (\$) | Fee Description  | Fee Paid |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1202  | 18                         | 2202 9 Claims in excess of 20  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1201  | 88                         | 2201 43 Independent claims in excess of 3  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1203  | 290                        | 2203 145 Multiple dependent claim, if not paid   |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1204  | 88                         | 2204 43 ** Reissue independent claims over original patent   |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| 1205  | 18                         | 2205 9 ** Reissue claims in excess of 20 and over original patent  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| <b>SUBTOTAL (2) (\$ )</b>   |                            |  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| **or number previously paid, if greater; For Reissues, see above  |                            | (Complete if applicable)   |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| <b>SUBMITTED BY</b><br>Name (Print/Type) <b>Helen M. Galus</b>  |                            | Registration No. <b>40,615</b>   |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
| Signature <i>Helen M. Galus</i>   |                            | Telephone <b>757-864-3227</b>  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |
|   |                            | Date <b>November 21, 2003</b>  |          |  |                                 |                 |          |                 |          |      |     |                    |    |                                     |     |      |     |                   |    |  |     |      |     |                  |     |                           |     |      |       |                    |       |   |     |      |     |                        |      |  |  |      |        |      |        |   |  |              |              |                |          |  |         |      |     |                    |        |   |  |                            |                            |                 |          |  |    |                               |       |      |     |   |  |      |       |  |       |  |    |  |     |      |     |   |  |                           |     |      |     |                                      |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                     |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |  |  |  |  |  |        |                                   |  |  |  |  |                                 |

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.